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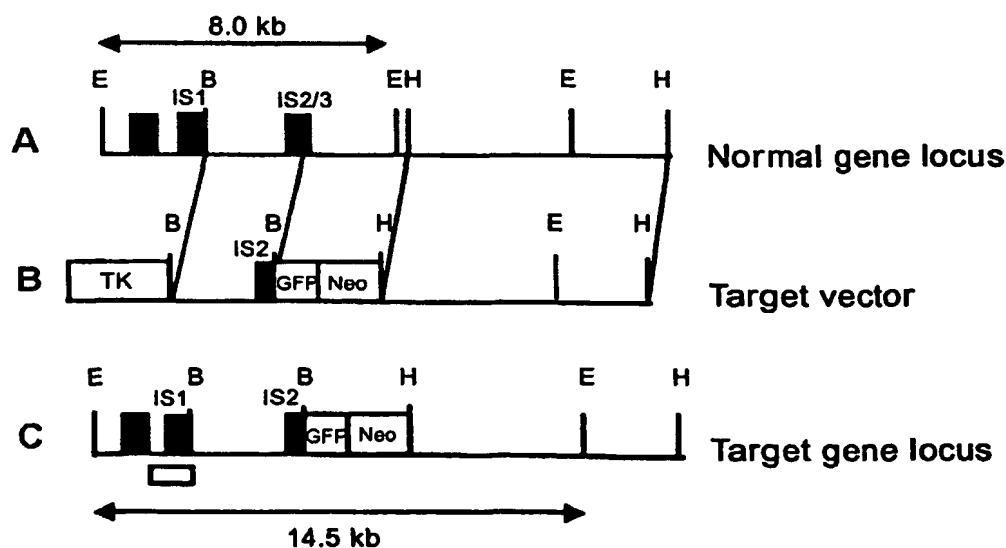
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(54) Title: METHOD FOR DECREASING DEPRESSION BY INHIBITING THE ACTIVITY OF N-TYPE CALCIUM CHANNEL



(57) Abstract: The present invention relates to the method for decreasing depression, more particularly to the method for decreasing depression by inhibiting the activity of N-type calcium channel. According to the present invention, inhibiting material of N-type calcium channel activity can effectively be used for the depression remedy. Also, anti-depression reagent can be screened using N-type calcium channel.

## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 A61K 39/395**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A61K 39/395

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean patents and applications for inventions since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CA, NCBI pubmed database, Delphion Research Intellectual Property network database "N type calcium channel depression"**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Normann C, et al. 'Associative long-term depression in the hippocampus is dependent on postsynaptic N-type Ca <sup>2+</sup> channels.' In J Neurosci, 2000, vol.20, No.22, p8290-7. see the whole document	1-6, 7-9, 10-11
A	King RD et al. 'Extracellular calcium depletion as a mechanism of short-term synaptic depression'. In J Neurophysiol. 2001, vol.85, No.5, p1952-9. see the whole document	1-6, 7-9, 10-11
A	Gao XB, et al. 'Melanin-concentrating hormone depresses L-, N-, and P/Q-type voltage-dependent calcium channels in rat lateral hypothalamic neurons.' In J Physiol. 2002 Jul, vol.542(Pt1), p273-86. see the whole document	1-6, 7-9, 10-11
A	Margrie TW, et al. 'Inhibition of transmitter release and long-term depression in the avian hippocampus.' In Neurosci Lett. 2000, vol.284, No.1-2, p17-20. see the whole document	1-6, 7-9, 10-11
A	Ayata C et al. 'Impaired neurotransmitter release and elevated threshold for cortical spreading depression in mice with mutations in the alpha1A subunit of P/Q type calcium channels' In Neuroscience. 2000, vol.95, No.3, p639-45. see the whole document	1-6, 7-9, 10-11

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